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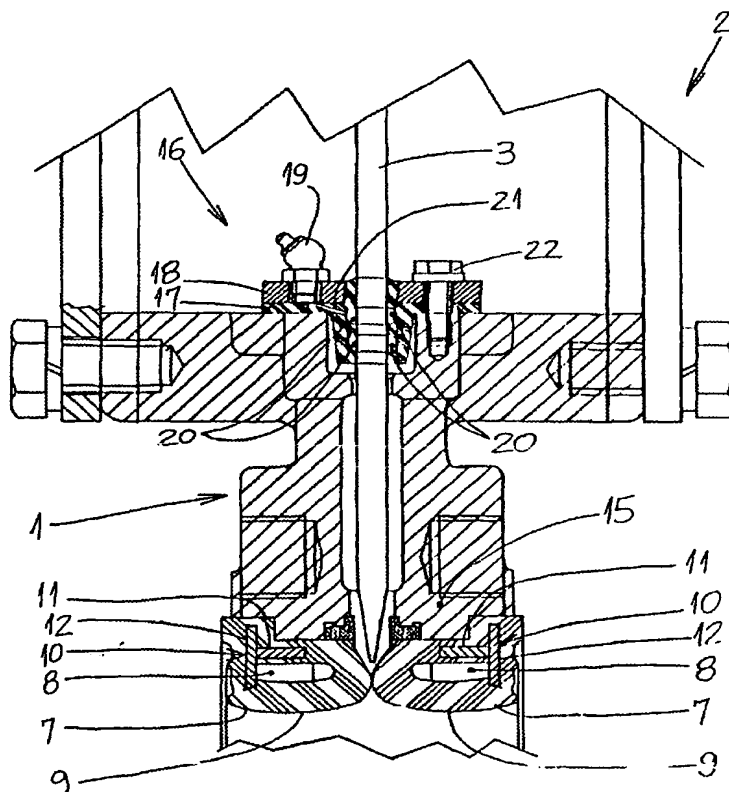
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[Continued on next page]

(54) Title: **GUILLOTINE VALVE**



(57) Abstract: A guillotine valve - used for example in pipelines - is described. It contains a single block body (1) incorporating sealing elements (7) each in the form of an annular hose section, which are made of an elastomeric material and which are hollow along their entire circumference, each providing an airtight pneumatic circumferential chamber (8), filled with air. Due to the compressibility of the chambers (8) the contact faces of the hose sections (7) deform uniformly in relation to the closing blade (3). Advantageously the hose sections (7) have convex contours on their internal faces (9), resulting in a further sealing effect due to the pressing together of the contact faces by the pressure of the pipeline fluid. Moreover the hose sections (7) can incorporate each a T-shaped metal core (10), consisting of an axial portion (11) and a radial portion (12).



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T/BR 03/00002

## CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>7</sup>: F16K, F16J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5271426 A (CLARKSON ET AL.) 21 December 1993 (21.12.93) <i>fig. 1-5, abstract, column 4, lines 13-22, 37-48, column 5 lines 29-32.</i>	1-4
Y	US 4527773 A (MÜLLER ET AL.) 9 July 1985 (09.07.85) <i>fig. 1-3, column 4, lines 31-54.</i>	1-4
A	US 3333816 A (WILLIAMS ET AL.) 1 August 1967 (01.08.67) <i>fig. 1, 4, 4A, column 3 lines 27-30, column 3, line 56 - column 4, line 5, column 2, lines 56-59.</i>	1,2,5,7
A	JP 11-063249 A (KUMAKURA) 5 March 1999 (05.03.99) <i>abstract, fig. 1, annular air reservoir chamber 26.</i>	1
A	US 4693447 A (PEREZ) 15 September 1987 (15.09.87) <i>fig. 2, 3a-3c, column 4, lines 59-66.</i>	1

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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„&amp;“ document member of the same patent family

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2091845 A (POWER HOUSE ENGINEERING LTD.) 4 August 1982 (04.08.82) <i>abstract, fig. 2, page 1, lines 50-63.</i>	1
A	US 5150881 A (MC KAVANAGH) 29 September 1992 (29.09.92) <i>abstract, fig. 1,3,4.</i>	1,5

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